

TCA110 Series

Test and Measurement Accelerometer, Side Exit 10-32 Coaxial Connector, 10-32 Mounting, 10 mV/g, ±10%

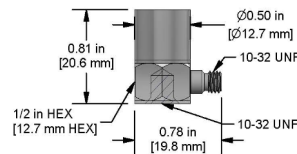


Product Features

- ▶ General Purpose Test & Measurement Accelerometer
- ▶ Lightweight Titanium Case
- ▶ 10kHz (±5%) Frequency Response

TCA110 Coaxial Connector

Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCA110	TCA120	<u>Environmental</u>		
Sensitivity (±10%)		10 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-1,800,000 CPM	0.5 Hz-30 kHz	Maximum Shock Protection		10,000 g, peak
Frequency Response (±10%)	30-900,000 CPM	0.5 Hz-15 kHz	Electromagnetic Sensitivity		CE (Pending)
Frequency Response (±5%)	30-600,000 CPM	0.5 Hz-10 kHz	Sealing		Welded, Hermetic
Dynamic Range		± 500g, peak	<u>Physical</u>		
Non-Linearity		≤ 1%	Sensing Element		PZT Ceramic
Transverse Sensitivity		≤ 5%	Sensing Structure		Shear Mode
<u>Electrical</u>			Weight	0.35 oz	10 grams
Settling Time		< 2 Seconds	Case Material		Titanium
Voltage Source (IEPE)		18-30 VDC	Mounting		10-32 UNF
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		10-32
Spectral Noise @ 10 Hz		100 µg/√Hz	Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz		19 µg/√Hz	Mounting Hardware	1/4-28 Adapter Stud	M5x.8 Adapter Stud
Spectral Noise @ 1000 Hz		5 µg/√Hz	Calibration Certificate		CA12 Step Calibration
Output Impedance		< 100 ohm			
Bias Output Voltage		10-14 VDC			
Case Isolation		Case Ground			